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10/647,250	08/26/2003	Akira Ueda	1614.1360	2448
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

,	Application No.	Applicant(s)			
Office Anti-e Occurrence	10/647,250	UEDA ET AL.			
Office Action Summary	Examiner	Art Unit			
- WALLING DATE (4)	Said Broome	2628			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period or Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. sely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 29 C	<u>october 2007</u> .	•			
<u>, </u>	, 				
• —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ⊠ Claim(s) 1 and 3-17 is/are pending in the applied 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1 and 3-17 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the drawing(s) be held in abeyance. Set tion is required if the drawing(s) is objected to by the lawing(s) is objected to be lawing(s).	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/29/07 has been entered.

Response to Amendment

- 1. This office action is in response to an amendment filed 10/29/2007.
- 2. Claim 17 has been added by the applicant.
- 3. Claims 1 and 3-16 are original.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 17 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 17 recites "...additional combination..." on line 13, however the claim does not provide language defining what is being combined in the combination and how the combination is performed.

Claim 17 recites the limitation "...any additional combination..." in line 13. There is

insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 3-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Marusich (US 2002/0198693).

Regarding claim 1, Marusich teaches a method of generating mesh data which represent a characteristic value, such as a material property of the mesh, is associated to combined cube elements (paragraph 0005 lines 1-7) and are used in a computer analysis related to a target object (paragraph 0035 lines 4-10 - 0036 lines 1-3). Marusich teaches subdividing a mesh into several geometric elements (paragraph 0035 lines 4-5), in which the mesh may be comprised with cube elements commonly known in the art (paragraph 0005 lines 1-7: "...the elements used to divide the component...of the model...In three dimensions...cubes are often used."), therefore it would have been obvious to one of ordinary skill in the art at the time of invention to enable the mesh subdivision process (Figure 3: step 2), to include rectangles or cubes, thereby accurately forming grid lines orthogonally crossing each other over a target object. Marusich also teaches forming cube data from mesh data obtained by dividing a target object by grid lines (paragraph 0005 lines 1-7, Figure 3: step 2). Marusich teaches it is commonly known in the art to subdivide a mesh

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surface into cube elements (paragraph 0005 lines 1-7), therefore it would have been obvious to one of ordinary skill in the art at the time of invention to represent the mesh surface with cube data formed of cube elements which are mesh elements forming the shape of a target object (paragraph 0005 lines 1-7). Marusich teaches mesh data, or cube data, is obtained by determining whether each of mesh elements forming the mesh data forms the target object based on a first condition of the target object in the mesh element (paragraph 0039 lines 8-19: "...elements can be refined, or re-meshed with additional, smaller elements to provide more detail, or to provide new elements with a non-deformed aspect ratio."), where mesh elements are determined to form the shape of an object after subdivision based on a first condition, such as determining a desired shape for the mesh (second step of the second column of the flow chart shown in Figure 4). Marusich also teaches generating combined cube elements by combining the cube elements (paragraph 0039 lines 8-19: "...elements can be refined, or re-meshed...selected elements or regions of elements can be re-meshed or coarsened with fewer, larger elements to provide less detail and to reduce the computations needed in areas of less interest...Adaptive meshing further includes adding or removing elements in contrast to refining or coarsening the mesh." and paragraph 0005 lines 1-7: "... the elements used to divide the component... of the model... In three dimensions...cubes are often used."), in accordance with a second condition, such as preventing change of the shape by repeatedly correcting an aspect ratio based on determination of an undesired shape, where a number of the combined cube elements is smaller than a number of cube elements (paragraph 0039 lines 8-19: "...elements can be refined...with fewer, larger elements..."), and storing the combined elements (paragraph 0038 lines 4-6), which may be cube

elements (paragraph 0005 lines 1-7) to be used in the computer analysis related to the target

object (paragraph 0038 lines 4-6: "The resulting deformation data is then utilized...sent to a

user readable media...", Figure 4: step 112). Marusich teaches that it would have been obvious

to one of ordinary skill in the art to enable the subdivided mesh elements (Figure 3: step 2) to be

cube elements (paragraph 0005 lines 1-7), in which the combined cube elements are therefore

generated by combining neighboring elements (paragraph 0039 lines 4-15: "... when the elements

or a selected number of elements are deformed to an undesirable aspect ratio...selected

elements or regions of elements can be re-meshed or coarsened with fewer, larger elements to

provide less detail and to reduce the computations needed in areas of less interest.") into cube

elements with orthogonal planes (paragraph 0005 lines 1-7), and a corrective action may be

taken if necessary according to the second condition (third column of the flowchart shown in

Figure 4), where the mesh surface is corrected based on determination of an undesired shape.

Regarding claim 3, Marusich teaches the first condition of the target object in the mesh element is a ratio of volume of the target object in the mesh element to volume of the mesh element (paragraph 0039 lines 25-28: "...smaller elements to provide more detail, or to provide new elements with a non-deformed aspect ratio. Alternatively, selected elements or regions of elements can be re-meshed or coarsened with fewer, larger elements to provide less detail and to reduce the computations needed in areas of less interest...An adaptive meshing change in orientation of a shared surface does not affect overall volume or the number of elements in the mesh. It allows a number of adjacent elements to improve their aspect ratio.").

Regarding claim 4, Marusich teaches a second condition of preventing the change of the shape of the target object formed of the cube data (paragraph 0039 lines 25-27: "An adaptive

meshing change in orientation of a shared surface does not affect overall volume or the number of elements in the mesh.", third column of Figure 4).

Regarding claim 5, Marusich teaches a second condition of preserving the substantial shape of the target object formed of the cube data (paragraph 0039 lines 25-27: "An adaptive meshing change in orientation of a shared surface does not affect overall volume or the number of elements in the mesh.").

Regarding claim 6, Marusich teaches a second condition of preventing the substantial volume of the cube elements (paragraph 0039 lines 25-27: "An adaptive meshing change in orientation of a shared surface does not affect overall volume or the number of elements in the mesh.").

Regarding claim 7, Marusich teaches a second condition of combining the cube elements preserves the substantial volume of the cube elements (paragraph 0039 lines 25-28: "...selected elements or regions of elements can be re-meshed or coarsened with fewer, larger elements to provide less detail and to reduce the computations needed in areas of less interest...An adaptive meshing change in orientation of a shared surface does not affect overall volume or the number of elements in the mesh. It allows a number of adjacent elements to improve their aspect ratio.").

Regarding claim 8, Marusich teaches a second condition of maintaining the aspect ratio of each of the surfaces of each of the composite cube elements (paragraph 0039 lines 25-28: "...selected elements or regions of elements can be re-meshed or coarsened with fewer, larger elements to provide less detail and to reduce the computations needed in areas of less interest..."), is within a predetermined range, in which the total volume of the object is preserved (paragraph 0039 lines 25-28: "...An adaptive meshing change in orientation of a shared surface

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does not affect overall volume or the number of elements in the mesh. It allows a number of adjacent elements to improve their aspect ratio.").

Regarding claim 9, Marusich teaches that each of the composite elements that divide the surface has a rectangular parallelepiped shape (paragraph 0005 lines 1-7: "The configuration of the elements used to divide the component or workpiece determines many of the properties and accuracy of the model... In three dimensions... cubes are often used."). Marusich also describes that the aspect ratio of each of the surfaces of each of the composite cube elements is a ratio of a length of a first side to a length of a second side of the surfaces, the first and second surface sides being orthogonal to each other (paragraph 0010 lines 6-9: "Selected elements or regions of elements can be refined, or re-meshed with additional, smaller elements to provide more detail, or to provide new elements with a non-deformed aspect ratio."), where the aspect ratio, which is known in the art to be the ratio between horizontal and vertical sides of the mesh elements, is therefore determined for the orthogonal sides of the elements of the surface.

Regarding claim 10, Marusich teaches that the grid lines portioning the cube elements are reduced in number as the cube elements are combined to be reduced in number (paragraph 0039 lines 25-28: "...selected elements or regions of elements can be re-meshed or coarsened with fewer, larger elements to provide less detail and to reduce the computations needed in areas of less interest..."), where the mesh elements are formed into fewer, larger elements and the lines formed by rectangular mesh elements are therefore reduced as well.

Regarding claims 11-13, Marusich teaches a computer readable medium for storing a program and an apparatus for executing the program (paragraph 0042 lines 3-6 and paragraph 0044 lines 1-5), to execute a method of generating mesh data (paragraph 0014 line 7), which

represents a characteristic value, such as material properties of the mesh associated with combined cube elements and are used in a computer analysis related to a target object (paragraph 0035 lines 4-10 - 0036 lines 1-3: "A mesh is generated within the body to subdivide the body into a number of elements. The desired deformation...is entered, typically by a user. A number of element behavior properties are defined for the elements...element behavior properties include material properties..."). Marusich teaches subdividing a mesh into several geometric elements (paragraph 0035 lines 4-5), in which the mesh may be comprised with cube elements (paragraph 0005 lines 1-7: "...the elements used to divide the component...of the model...In three dimensions...cubes are often used."), therefore it would have been obvious to one of ordinary skill in the art at the time of invention to enable the mesh subdivision process (Figure 3: step 2), to include rectangles or cubes commonly known in the art, thereby forming grid lines orthogonally crossing each other over target object. Marusich teaches forming cube data from mesh data obtained by dividing the target object by the grid lines, the cube data being formed of cube elements that are mesh elements forming the target object wherein the cube data is obtained by determining whether each of mesh elements forming the mesh data forms the target object (paragraph 0005 lines 1-7, Figure 3: step 2). Marusich teaches generating combined cube elements (paragraph 0005 lines 1-7, paragraph 0039 lines 8-19), in accordance with a predetermined condition of preventing a change of a shape of the target object formed of the cube data (paragraph 0039 lines 25-27: "An adaptive meshing change in orientation of a shared surface does not affect overall volume or the number of elements in the mesh." and paragraph 0050 lines 8-11: "The modeling element includes a good aspect ratio in the parent element and sub-elements to improve accuracy and computational efficiency."). Marusich also teaches the

remaining conditions (third column of the flowchart in Figure 4), where the shape and aspect ratio of the object is preserved by adaptively dividing the mesh until a desired aspect ratio is obtained. Marusich teaches storing the combined elements (paragraph 0038 lines 4-6), which may be cube elements (paragraph 0005 lines 1-7), to be used in the computer analysis related to the target object (paragraph 0038 lines 4-6, Figure 4: step 112). Marusich teaches combined cube elements are generated by combining neighboring elements in orthogonal planes (paragraph 0005 lines 1-7), where the divided mesh surfaces comprises cubes, which therefore form orthogonal planes on the surface. Marusich teaches that a corrective action may be taken if necessary according to the predetermined condition (second and third column in the flowchart of Figure 4), where it is shown that based on determination of an undesired shape, the mesh surface is repeatedly corrected.

Regarding claim 14, Marusich teaches a method of generating mesh data which represent a characteristic value, such as a material property of the mesh, is associated to combined cube elements (paragraph 0005 lines 1-7) and are used in a computer analysis related to a target object (paragraph 0035 lines 4-10 - 0036 lines 1-3: "A mesh is generated within the body to subdivide the body into a number of elements. The desired deformation...is entered, typically by a user. A number of element behavior properties are defined for the elements...element behavior properties include material properties..."). Marusich teaches subdividing a mesh into several geometric elements (paragraph 0035 lines 4-5), in which the mesh may be comprised with cube elements commonly known in the art (paragraph 0005 lines 1-7: "...the elements used to divide the component...of the model...In three dimensions...cubes are often used."), therefore it would have been obvious to one of ordinary skill in the art at the time of invention to enable the target

object (paragraph 0039 lines 4-15, Figure 3: step 2) to be divided into a plurality of rectangles or cubes commonly known in the art, thereby enabling the mesh surface to contain orthogonal lines that form a grid over the surface. Marusich teaches combining the plurality of first elements according to a predetermined condition, in which the shape of the object is preserved (paragraph 0039 lines 25-27: "An adaptive meshing change in orientation of a shared surface does not affect overall volume or the number of elements in the mesh."), to generate a plurality of second elements, storing the second elements (paragraph 0038 lines 4-6), which may be cube elements (paragraph 0005 lines 1-7), to be used in the computer analysis related to the target object (paragraph 0038 lines 4-6, Figure 4: step 112), each second element corresponding to second data, wherein a number of second elements is smaller that a number of the first elements (paragraph 0039 lines 8-19: "...elements can be refined, or re-meshed with additional, smaller elements to provide more detail, or to provide new elements with a non-deformed aspect ratio. Alternatively, selected elements or regions of elements can be re-meshed or coarsened with fewer, larger elements to provide less detail and to reduce the computations needed in areas of less interest"). Marusich also teaches that it would have been obvious to one of ordinary skill in the art to enable the subdivided mesh elements (Figure 3: step 2) to be cube elements (paragraph 0005 lines 1-7), in which the combined cube elements are therefore generated by combining neighboring elements (paragraph 0039 lines 4-15: "... when the elements or a selected number of elements are deformed to an undesirable aspect ratio...selected elements or regions of elements can be re-meshed or coarsened with fewer, larger elements to provide less detail and to reduce the computations needed in areas of less interest.") into cube elements with orthogonal planes (paragraph 0005 lines 1-7), and a corrective action may be taken if (third column of the

flowchart shown in Figure 4), where the mesh surface is corrected based on determination of an undesired shape.

Regarding claim 15, Marusich teaches a method of analyzing material and pressure properties of a mesh model (paragraph 0036 lines 1-6), therefore this mesh data analysis could be applied to any structural or pressure analysis, such as thermal analysis, as disclosed in the applicant's Specification on page 6 lines 31-36 and page 7 lines 13-15. Marusich teaches subdividing a mesh into several geometric elements (paragraph 0035 lines 4-5), in which the mesh may be comprised with cube elements commonly known in the art (paragraph 0005 lines 1-7: "...the elements used to divide the component...of the model...In three dimensions...cubes are often used."), therefore it would have been obvious to one of ordinary skill in the art at the time of invention to enable the mesh subdivision process (Figure 3: step 2), to include rectangles or cubes, thereby accurately forming grid lines orthogonally crossing each other over a target object. Marusich also teaches forming cube data from mesh data obtained by dividing a target object by grid lines (paragraph 0005 lines 1-7, Figure 3: step 2). Marusich teaches that it is commonly known in the art to subdivide a mesh surface into cube elements (paragraph 0005 lines 1-7), therefore it would have been obvious to one of ordinary skill in the art at the time of invention to represent the mesh surface with cube data formed of cube elements which are mesh elements forming the shape of a target object (paragraph 0005 lines 1-7). Marusich also teaches generating combined cube elements by combining the cube elements in accordance with a predetermined condition, such as preventing change of the shape by repeatedly correcting an aspect ratio based on determination of an undesired shape (paragraph 0039 lines 8-19: "...elements can be refined, or re-meshed...selected elements or regions of elements can be reApplication/Control Number: 10/647,250

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meshed or coarsened with fewer, larger elements to provide less detail and to reduce the computations needed in areas of less interest...Adaptive meshing further includes adding or removing elements in contrast to refining or coarsening the mesh." and paragraph 0005 lines 1-7: "...the elements used to divide the component...of the model...In three dimensions...cubes are often used."). Marusich teaches storing the elements (paragraph 0038 lines 4-6), which may be cube elements (paragraph 0005 lines 1-7), to be used in the computer analysis related to the target object (paragraph 0038 lines 4-6, Figure 4: step 112). Marusich teaches that it would have been obvious to one of ordinary skill in the art to enable the subdivided mesh elements (Figure 3: step 2) to be cube elements (paragraph 0005 lines 1-7), in which the combined cube elements are therefore generated by combining neighboring elements (paragraph 0039 lines 4-15: "...when the elements or a selected number of elements are deformed to an undesirable aspect. ratio...selected elements or regions of elements can be re-meshed or coarsened with fewer, larger elements to provide less detail and to reduce the computations needed in areas of less interest.") into cube elements with orthogonal planes (paragraph 0005 lines 1-7), and a corrective action may be taken if necessary (third column of the flowchart shown in Figure 4), where the mesh surface is corrected based on determination of an undesired shape.

Regarding claim 16, Marusich teaches a method to generate mesh data (paragraph 0014 line 7), and receiving data representing a target object (paragraph 0035 lines 2-4, first step of Figure 4). Marusich teaches subdividing a mesh into several geometric elements (paragraph 0035 lines 4-5), in which the mesh may be comprised with cube elements commonly known in the art (paragraph 0005 lines 1-7: "...the elements used to divide the component...of the model...In three dimensions...cubes are often used."), therefore it would have been obvious to

one of ordinary skill in the art at the time of invention to enable the mesh subdivision process (Figure 3: step 2), to include rectangles or cubes, thereby accurately forming grid lines orthogonally crossing each other over a target object. Marusich teaches determining whether each of the mesh elements is a cube element forming the target object based on a ratio of a volume of the target object in the mesh element and a volume of the mesh element (paragraph 0005 lines 1-7 and in paragraph 0050 lines 8-11), where as the mesh surface is divided into cubes containing orthogonal lines, the overall aspect ratio of the object is preserved, therefore the cube elements formed from the division are based on the ratio of the volume (Figure 4). Marusich teaches forming cube data from one or more of the mesh elements determined as the cube elements (paragraph 0005 lines 1-7). Marusich teaches determining a combination of two or more of the cube elements, the two or more of the cube elements being combinable in any of a plurality of orthogonal planes (paragraph 0005 lines 1-7 and in paragraph 0039 lines 8-19), where elements are combined into fewer larger elements, therefore at least two cube elements of the mesh are combined. Marusich also teaches reducing a number of the cube elements by combining the two or more of the cube elements of the determined combination (paragraph 0039 lines 8-19: "...selected elements or regions of elements can be re-meshed or coarsened with fewer, larger elements..."), and storing the resulting reduced set of elements (paragraph 0038 lines 4-6), which may be cube elements known in the art (paragraph 0005 lines 1-7).

Regarding claim 17, Marusich teaches a method of generating cube elements for three-dimensional data, while preserving an aspect ratio (paragraph 0005 lines 1-7 and in paragraph 0050 lines 8-11), comprising capturing original three-dimensional data (paragraph 0035 lines 2-4, first step of Figure 4); overlaying cube data over the three-dimensional data such as covering

the same three dimensional space (paragraph 0035 lines 4-5), in which the mesh may be comprised with cube elements commonly known in the art (paragraph 0005 lines 1-7: "...the elements used to divide the component...of the model...In three dimensions...cubes are often used."), therefore it would have been obvious to one of ordinary skill in the art at the time of invention to enable the mesh subdivision process (Figure 3: step 2), to include rectangles or cubes, thereby accurately covering the three-dimensional object in three-dimensional space; specifying conditions for merging the cube data overlaid on the original three-dimensional data to yield cube elements representing the original three-dimensional data (paragraph 0014 lines 12-14), where properties are generated for three-dimensional data (paragraph 0024 lines 9-12); merging the cube data sequentially in each of three orthogonal planes including two reciprocal perpendicular directions (paragraph 0041 lines 1-13), where the surfaces or planes threedimensional data is merged or subdivided in the axial three-dimensions, according to the specified conditions (paragraph 0041 lines 7-9); evaluating whether the merged cube data preserve an aspect ratio of the original three dimensional data (paragraph 0005 lines 1-7 and in paragraph 0050 lines 8-11), where the data is merged into cubes containing orthogonal lines, to preserve the aspect ratio (Figure 4), and taking correcting actions to improve the aspect ratio if the aspect ratio has been altered more than predetermined value (Figure 4), where adaptive correction is performed to correct errors; performing any additional combination that without being limited to the three orthogonal planes meet the specified conditions and do not alter the aspect ratio beyond the predetermined values (paragraph 0039 lines 19-28, Figure 1A), where the aspect ratio is analyzed in relation to a surface of the model, therefore the plane of the threedimensional model is used to determine if the specified subdivision does not alter the aspect

relation on a given tolerance without requiring analysis of all other planar surfaces of the model; and outputting the cube data merged, corrected and combined as cube elements (paragraph 0005 lines 1-7).

Response to Arguments

Applicant's arguments filed 10/29/07 have been fully considered but they are not persuasive.

The applicant argues that the reference Marusich used in the 35 U.S.C. 103(a) rejection teaches use of only tetrahedrons as modeling elements. However, Marusich teaches that the elements produced from subdividing a mesh into several geometric elements (paragraph 0035 lines 4-5) are geometric cube elements commonly known in the art (paragraph 0005 lines 1-7: "...the elements used to divide the component...of the model...In three dimensions...cubes are often used."), therefore it would have been obvious to one of ordinary skill in the art at the time of invention to enable the subdivided mesh surface (paragraph 0039 lines 4-15, Figure 3: step 2) to include rectangles or cubes commonly known in the art, thereby enabling generation of a subdivided mesh surface to provide a subdivided surface well known and often used in the art. Therefore Marusich does not teach away from utilizing cube elements because the reference states that cubes are geometric elements frequently used in the art for subdivision surfaces (paragraph 0005 lines 1-6).

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Said Broome whose telephone number is (571)272-2931. The examiner can normally be reached on M-F 8:30am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ulka Chauhan can be reached on (571)272-7782. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Said Broome/ Art Unit 2628 12/20/07 RYAN YANG 12126/07
PRIMARY EXAMINER